



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/667,439	09/22/2000	Nobuaki Usui	1075.1134/JDH 9373		
21171	7590 02/02/2005		EXAM	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ROGERS, SCOTT A		
			ART UNIT	PAPER NUMBER	
			2626		

DATE MAILED: 02/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
_	09/667,439	USUI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Scott A Rogers	2626				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1)⊠ Responsive to communication(s) filed on <u>03 September & 12 November 2004</u> .						
3) Since this application is in condition for allowar						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) ⊠ Claim(s) 3,4,6,8-10,12-14,16-18,20-22,24-29,31,35,36,40 and 41 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ⊠ Claim(s) 3,4,6,8,10,12,14,16,18,20,22,24,26-29,31,35,36,40 and 41 is/are allowed. 6) □ Claim(s) is/are rejected. 7) ⊠ Claim(s) 9,13,17,21 and 25 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 03 September 2004.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

Application/Control Number: 09/667,439

Art Unit: 2626

DETAILED ACTION

Examiner's Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Referring to claims 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26-29, 31, 35, 36, 40, and 41, the prior art searched and of record neither anticipates nor suggests in the claimed combinations, adding values according to the occurred error to the values of the unscanned pixels along the detected direction of the profile as an exceptional process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claim Objections

Claims 9, 13, 17, 21, and 25 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim 9, which depends from claim 4, is a duplicate of claim 8, which also depends from claim 4. Claims 13, 17, 21, and 25 depend directly or indirectly from

Application/Control Number: 09/667,439

Art Unit: 2626

claim 9 and are duplicates of claims 12, 16, 21, and 24, respectively, which depend directly or indirectly from claim 8 in the same way.

Applicant should either cancel or amend claims 9, 13, 17, 21, and 25. For example, this branch of claims could be replaced with a duplicate branch ultimately depending from any one or all of claims 26-29 or from a new dependent claim supported by the original specification and depending from allowed claim 3.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sommer (US 6026199 A) discloses that the selection of pixels to which the quantization error E is distributed will be determined by the direction of the edge transition.

Chan (US 5140432 A) disclose diffusing the error remainder R in the direction of a changing gray scale profile developing in the image being scanned.

Katayama et al (US 4,878,125) proposes a method of varying the ratio of dispersion of error into the surrounding pixels according to the amount and direction of edge present in the image.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott A Rogers whose telephone number is 703-305-4726. The examiner can normally be reached on Monday & Wednesday 6:00am-6:00pm and Tuesday & Thursday 6:00am-2:00pm.

Application/Control Number: 09/667,439

Art Unit: 2626

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on 305-4863.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service at 703-306-0377. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SCOTT ROGERS

28 January 2005